ABSTRACT

An inspection system for identifying predetermined features in coiled tubing, comprising a computer system configured to execute pattern recognition software and a plurality of imaging devices configured to capture video images of coiled tubing as the tubing passes by the imaging devices. Images captured by the inspection system are transmitted to the computer system and the pattern recognition software analyzes the image, extracts features from the image, and generates an indication if a defect is identified in the images. The computer system reads a counter signal to identify the longitudinal location along the coiled tubing at which the defect is located. The counter signal may also be used to enable or disable the inspection system. The system is capable of real-time processing or post processing by optionally storing the video images. The coiled tubing includes longitudinal striping as a reference to specify the annular position of a predetermined feature.